BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work :- Improvemnts and Construction of CC Road and Drains at Munikondappa Layout and Muneshwaranagara Surrounding Roads in Ward 14 Bagalagunte.

Detailed Estimate

Estimate Cost Rs.200 Lakhs

Sl No	Description of work	No	Dimensions			Quantity	Rate	Unit	Amount
			Length	Bredth	Depth				
1	**Earthwork excavation** by manual means for roads,drians& Similar works in ordinary excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.**(Page No 144., I.No.19.1 of KPWD S.R 2018-19)**								
	Munikondappa layout								
	6th cross	2	130.00	1.10	0.90	257.40			
	Gap between Drain and Asphalt surface	2	130.00	0.45	0.30	35.10			
	5th cross	2	125.00	1.10	0.90	247.50			
	Gap between Drain and Asphalt surface	2	125.00	0.45	0.30	33.75			
	4th cross	2	103.50	1.10	0.90	204.93			
	Gap between Drain and Asphalt surface	2	103.50	0.45	0.30	27.95			
	2th cross	2	100.00	1.10	0.90	198.00			
	Gap between Drain and Asphalt surface	2	100.00	0.45	0.30	27.00			
	1th cross	2	100.00	1.10	0.90	198.00			
	Gap between Drain and Asphalt surface	2	100.00	0.45	0.30	27.00			
	cross road	2	80.00	1.10	0.90	158.40			
	Gap between Drain and Asphalt surface	2	80.00	0.45	0.30	21.60			
	cross road	1	80.00	1.10	0.90	79.20			

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	Gap between Drain and Asphalt surface	1	80.00	0.45	0.30	10.80			
	cross road	2	75.00	1.10	0.90	148.50			
	Gap between Drain and Asphalt surface	2	75.00	0.45	0.30	20.25			
	cross road	2	70.00	1.10	0.90	138.60			
	Gap between Drain and Asphalt surface	2	70.00	0.45	0.30	18.90			
	For kerb								
	Munikondappa layout								
	6th cross	2	130.00	0.30	0.15	11.70			
	5th cross	2	125.00	0.30	0.15	11.25			
	4th cross	2	103.50	0.30	0.15	9.32			
	2nd cross	1	100.00	0.30	0.15	4.50			
	1st cross	2	100.00	0.30	0.15	9.00			
	cross road	2	80.00	0.30	0.15	7.20			
		1	80.00	0.30	0.15	3.60			
		2	75.00	0.30	0.15	6.75			
		2	70.00	0.30	0.15	6.30			
	For culverts								
	Munikondappa layout	6	5.00	2.00	0.90	54.00	207.60		410319.32
					Total	**1976.49**	**225.36**	**Cum**	**445413.88**
2	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(Page No13., I.No.4.2 of KPWD S.R 2018-19)** 222. 27.18								
	Munikondappa layout								
	6th cross	2	130.00	1.10	0.15	42.90			
	Gap between Drain and Asphalt surface	2	130.00	0.45	0.15	17.55			
	5th cross	2	125.00	1.10	0.15	41.25			
	Gap between Drain and Asphalt surface	2	125.00	0.45	0.15	16.88			

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	4th cross	2	103.50	1.10	0.15	34.16			
	Gap between Drain and Asphalt surface	2	103.50	0.45	0.15	13.97			
	2th cross	2	100.00	1.10	0.15	33.00			
	Gap between Drain and Asphalt surface	2	100.00	0.45	0.15	13.50			
	1th cross	2	100.00	1.10	0.15	33.00			
	Gap between Drain and Asphalt surface	2	100.00	0.45	0.15	13.50			
	cross road	2	80.00	1.10	0.15	26.40			
	Gap between Drain and Asphalt surface	2	80.00	0.45	0.15	10.80			
	cross road	1	80.00	1.10	0.15	13.20			
	Gap between Drain and Asphalt surface	1	80.00	0.45	0.15	5.40			
	cross road	2	75.00	1.10	0.15	24.75			
	Gap between Drain and Asphalt surface	2	75.00	0.45	0.15	10.13			
	cross road	2	70.00	1.10	0.15	23.10			
	Gap between Drain and Asphalt surface	2	70.00	0.45	0.15	9.45			
	For kerb								
	Munikondappa layout								
	6th cross	2	130.00	0.30	0.15	11.70			
	5th cross	2	125.00	0.30	0.15	11.25			
	4th cross	2	103.50	0.30	0.15	9.32			
	2nd cross	1	100.00	0.30	0.15	4.50			
	1st cross	2	100.00	0.30	0.15	9.00			
	cross road	2	80.00	0.30	0.15	7.20			
		1	80.00	0.30	0.15	3.60			
		2	75.00	0.30	0.15	6.75			
		2	70.00	0.30	0.15	6.30			
	For culverts								
	Munikondappa layout	6	5.00	2.00	0.15	9.00	5421.90		2502423.78
					Total	**461.54**	**5505.64**	**Cum**	**2541086.85**

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3	KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, mechine mixed ,well compacted for walls and bottom includeing centering,shuttering,cost of material,HOM of machinery,curing etc., complete excluding cost steel as per MORTH specification No.1500,1700,2200, including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Wall & bottom thickness 15cm(Page No 271., I.No.37.59.2 of KPWD S.R 2018-19)								
	A)For Raft								
	Munikondappa layout								
	6th cross	2	130.00	1.10	0.15	42.90			
	5th cross	2	125.00	1.10	0.15	41.25			
	4th cross	2	103.50	1.10	0.15	34.16			
	2th cross	2	100.00	1.10	0.15	33.00			
	1th cross	2	100.00	1.10	0.15	33.00			
	cross road	2	80.00	1.10	0.15	26.40			
		1	80.00	1.10	0.15	13.20			
		2	75.00	1.10	0.15	24.75			
		2	70.00	1.10	0.15	23.10			
	For Side walls								
	Munikondappa layout								
	6th cross	4	130.00	0.15	0.90	70.20			
	5th cross	4	125.00	0.15	0.90	67.50			
	4th cross	4	103.50	0.15	0.90	55.89			
	2nd cross	2	80.00	0.15	0.90	21.60			
	1st cross	4	60.00	0.15	0.90	32.40			
	cross road	4	80.00	0.15	0.90	43.20			
		2	80.00	0.15	0.90	21.60			
		4	75.00	0.15	0.90	40.50			
		4	70.00	0.15	0.90	37.80			
						662.45			
	B)For culverts								
	For Raft	6	5.00	1.50	0.23	10.35			
	For Side walls	6x2	5.00	0.25	0.60	9.00			
						19.35			
					Total	**681.80**	**7070.20**	**Cum**	**4820427.01**

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(5)

4	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6(Page No 14., I.No.4.10 of KPWD S.R 2018-19) (pg. No. 226, Item No. 28.7.2)								
	Gap between Drain and Roads								
	6th cross	2	130.00	0.45	0.15	17.55			
	5th cross	2	125.00	0.45	0.15	16.88			
	4th cross	2	103.50	0.45	0.15	13.97			
	2nd cross	2	100.00	0.45	0.15	13.50			
	1st cross	2	100.00	0.45	0.15	13.50			
	cross road	2	80.00	0.45	0.15	10.80			
		1	80.00	0.45	0.15	5.40			
		2	75.00	0.45	0.15	10.13			
		2	70.00	0.45	0.15	9.45			
	For gap between house and drains	2	325.00	0.15	0.3	29.25	5951.90		835765.80
					Total	**140.42**	**6160.72**	**Cum**	**865103.70**
5	KSRB 4.9.2 : Providing **T.M.T steel** reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 (Page No 18., I.No.4.46.2 of KPWD S.R 2018-19). Specification as per Pg. No. 239, Item No. 29.29.20								
	For Drain								
	Qty as itemNo-3A					662.45			
			at 70kgs /cum			46371.15			
	For Culverts								
	Qty as itemNo-3B					19.35			
			at 90kgs /cum			1741.50			
						48112.65	43992.24	Kgs	3559766.65
					Total	**48.11**	**75223.96**	**Tonne**	**3619224.06**

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6	Providing and Fixing **RCC precast cover slab 250 mm** thick made out of CC1:1.5:3 and jelly 20 mm down size with steel reinforcement including form work,curing,including cost of all materials,lobour,hire charges of machinery,loading, unloading ,lead and lift, transportation etc., complete **(Data** (ADR)								
	Munikondappa layout	6	5.00	1.2		36	5241.00		188676.00
					Total	**36**	**5418.00**	**Sqm**	**195048.00**
7	Providing and Fixing **RCC precast cover slab made out of 1:2:4 with 10cm thick** and Finishing cutting,including form work,curing,includinh cost of all materials,lobour,hire charges of machinery,loading, unloading ,lead and lift, transportation etc., complete **(Data rate)** (ADR)								
	Munikondappa layout								
	6th cross	2	65.00	0.90		117.00			
	5th cross	2	62.50	0.90		112.50			
	4th cross	2	51.75	0.90		93.15			
	2nd cross	1	40.00	0.90		36.00			
	1st cross	2	30.00	0.90		54.00			
	cross road	2	40.00	0.90		72.00			
		1	40.00	0.90		36.00			
		2	37.50	0.90		67.50			
		2	35.00	0.90		63.00	2208.00		1437739.20
					Total	**651.15**	**2300.00**	**sqm**	**1497645.00**
8	Providing **granite slabs** of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc., Complete. Using 10cm thick slabs **(Page no 27., I.No .5.31.2 of KPWD S.R 2018-19).**								
	Munikondappa layout								
	6th cross	2	65.00	0.75		97.50			
	5th cross	2	62.50	0.75		93.75			
	4th cross	2	51.75	0.75		77.63			
	2nd cross	1	40.00	0.75		30.00			
	1st cross	2	30.00	0.75		45.00			
	cross road	2	40.00	0.75		60.00			
		1	40.00	0.75		30.00			
		2	37.50	0.75		56.25			
		2	35.00	0.75		52.50			
					Total	**542.63**	**966.72**	**Sqm**	**524566.44**
9	Providing **two line dressing** to granite stone slab/granite stone masonary as per specifications.**(Page no 26., I.No .5.18 of KPWD S.R 2018-19).**								
	Munikondappa layout								
	6th cross	2	65.00	0.75		97.50			
	5th cross	2	62.50	0.75		93.75			

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	4th cross	2	51.75	0.75		77.63			
	2nd cross	1	40.00	0.75		30.00			
	1st cross	2	30.00	0.75		45.00			
	cross road	2	40.00	0.75		60.00			
		1	40.00	0.75		30.00			
		2	37.50	0.75		56.25			
		2	35.00	0.75		52.50			
					Total	**542.63**	**1584.70**	**Sqm**	**859897.84**
10	Providing **Chamfering edges** to stone slab 2.5 cms wide as per specifications.**(Page no 26., I.No .5.22 of KPWD S.R 2018-19).**								
	Munikondappa layout								
	6th cross	2	65.00	0.75		97.50			
	5th cross	2	62.50	0.75		93.75			
	4th cross	2	51.75	0.75		77.63			
	2nd cross	1	40.00	0.75		30.00			
	1st cross	2	30.00	0.75		45.00			
	cross road	2	40.00	0.75		60.00			
		1	40.00	0.75		30.00			
		2	37.50	0.75		56.25			
		2	35.00	0.75		52.50			
					Total	**542.63**	**61.48**	**m**	**33360.59**
11	Providing and fixing **pre cast solid cement concrete kerb stones** made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. **(Page No 27., I.No.5.30 of KPWD S.R 2018-19).**								
	Munikondappa layout								
	6th cross	2	130.00			260.00			
	5th cross	2	125.00			250.00			
	4th cross	2	103.50			207.00			
	2nd cross	1	80.00			80.00			
	1st cross	2	60.00			120.00			
	cross road	2	80.00			160.00			
		1	80.00			80.00			
		2	75.00			150.00			
		2	70.00			140.00			
						1447.00			
					Total	**3215.56**	**432.48**	**No's**	**1390663.47**

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12	Providing and applying **primer coat** for surfaces of medium porosity like cement stabilized soil base @ 0.90kg/sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour, HOM of machineries complete as per specifications...**(Page no 158., I.No 21.5 of KPWD S.R 2018-19)**								
	Munikondappa layout								
	6th cross	2	130.00		0.40	104.00			
	5th cross	2	125.00		0.40	100.00			
	4th cross	2	103.50		0.40	82.80			
	2nd cross	1	80.00		0.40	32.00			
	1st cross	2	60.00		0.40	48.00			
	cross road	2	80.00		0.40	64.00			
		1	80.00		0.40	32.00			
		2	75.00		0.40	60.00			
		2	70.00		0.40	56.00			
					Total	**578.80**	**46.64**	**Sqm**	**26995.23**
13	KSRRB 800-1. **Painting two coats after filling** the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8. **(Page No 180., I.No.24.1 of KPWD S.R 2018-19).**								
	Munikondappa layout								
	6th cross	2	130.00		0.40	104.00			
	5th cross	2	125.00		0.40	100.00			
	4th cross	2	103.50		0.40	82.80			
	2nd cross	1	80.00		0.40	32.00			
	1st cross	2	60.00		0.40	48.00			
	cross road	2	80.00		0.40	64.00			
		1	80.00		0.40	32.00			
		2	75.00		0.40	60.00			
		2	70.00		0.40	56.00			
					Total	**578.80**	**84.80**	**Sqm**	**49082.24**
					Total Construction charges				**16868514.30**

= 16839683.53

GST 12% = 1996762.00

Sub total = 18636445.55

~~5%~~ (6%) Tender premium = 1115186.75 ~~1080913.84~~

PMC 1.25% = 232955.57

Miscell = 12412.15

Total = 20000000.00

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1. The work spot has been inspected and items made are found to be necessary .
2. The work spot comes under BBMP Limits.
3. The provisions made in the estimate are necessary and minimum.
4. The estimate is based on CSR of PWD Circle, Bangalore for the year 2018-19.

NINETECH INFRA SOLUTIONS PVT. LTD. Bangalore-56

Consultant

Assistant Engineer
Project Division , Dasarahalli
BBMP, Bangalore

Assistant Executive Engineer
Project Division , Dasarahalli
BBMP, Bangalore

Executive Engineer
Project Division , Dasarahalli
BBMP, Bangalore

ನಂ. CE/DZ/TS/184/18-19 ದಿನಾಂಕ : 22/02/2019
ರೂ. 200.00 lakhs/- (Rs Two Hundred lakhs only).
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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